

WOA Scientific Program
Westin Snowmass Resort, Snowmass, CO
August 1-4, 2018

Thursday, August 2

5:45 am – 6:45 am **Scientific E-Poster Session** (Presenters are available to answer questions.)

6:45 am – 6:50 am **Welcome and Announcements**
Jeffrey E. Krygier, MD, Program Chair
Brian A. Jewett, MD, President

6:50 am – 7:00 am **First Business Meeting**

Symposium 1 – Sports – Focus on the Athlete’s Knee

Moderator: Jonathan Bravman, MD, *University of Colorado School of Medicine*

7:00 am – 7:12 am Team Physician Role and Responsibilities
Jonathan Bravman, MD, University of Colorado School of Medicine

7:12 am – 7:24 am Return to Play after an ACL Injury
Kevin D. Plancher, MD, Albert Einstein College of Medicine

7:24 am – 07:36 am Management of the “Other” Knee Ligaments (ALL, MCL, LCL, etc...)
Eric McCarty, MD, University of Colorado School of Medicine

7:36 am – 7:48 am Current State of the Art in Treatment of Patellar Instability
Rachel M. Frank, MD, University of Colorado School of Medicine

7:48 am – 7:50 am Discussion

Rapid Fire Sessions 1A – Pediatrics

Moderators: TBD

7:55 am – 7:59 am Trends in Pediatric Traumatic Upper Extremity Amputations
Venus Vakhshori, MD, Keck School of Medicine at the University of Southern California

7:59 am – 8:03 am Association Between Fracture Laterality and Nerve Injury Among Pediatric Supracondylar Humerus Fractures

Diana Douleh, MD, University of Colorado

- 8:03 am – 8:07 am How Often Are Pediatric Elbow Radiographs Adequate for Interpretation
Daniel Brereton, DO, Riverside University Health System
- 8:07 am – 8:11 am Mischievous Metaphyseal Metallic Implants in Children
Chason Ziino, MD, Stanford University
- 8:11 am – 8:15 am Discussion
- 8:15 am – 8:19 am Radiolucent versus Fracture Tables for In Situ SCFE Pinning
Katherine Schroeder, MD, Texas Children's Hospital/ Baylor College of Medicine
- 8:19 am – 8:23 am Accuracy of Fluoroscopy when Assessing Pin Protrusion during Fracture Stabilization?
Steven Kenney, DO, MPH, Riverside University Health System
- 8:23 am – 8:27 am Sacroiliac Periosteal Avulsion as an Indication of Posterior Pelvic Fracture Instability in Children
Chase Dean, MD, University of Colorado School of Medicine
- 8:27 am – 8:31 am Closed versus Surgical Management of SER IV Ankle Fractures in Adolescents: Maintain the Ankle Mortise
Benjamin Lurie, BA, Rady Children's Hospital
- 8:31 am – 8:35 am Discussion

Rapid Fire Sessions 1B – Upper Extremity/Hand & Wrist

Moderators: TBD

- 7:55 am – 7:59 am Proximal Row Carpectomy versus Four Corner Fusion: Regional Differences, Incidence, and Conversion to Fusion
Harrison Kay, MD, University of Southern California Medical Center
- 7:59 am – 8:03 am Feasibility and Usability of a Ranking Tool for Trigger Finger
Lauren Shapiro, MD, Stanford Hospital and Clinics
- 8:03 am – 8:07 am Wrist Arthroscopy for the Treatment of Scapholunate Predynamic Instability and Return to Push-Up Activity
Christopher Belyea, MD, Tripler Army Medical Center
- 8:07 am – 8:11 am FasT-Fix All-Arthroscopic Repair of Peripheral TFCC Tears: Safe and Effective in Long-Term

Eric Sarkissian, MD, Stanford University Medical Center

8:11 am – 8:15 am

Discussion

8:15 am – 8:19 am

Epidemiological and Treatment Trends of Distal Radius Fractures Across Multiple Age Groups
Ali Azad, MD, University of Southern California

8:19 am – 8:23 am

Peripheral Nerve Block Prior to Distal Radius Repair
Pierce Johnson, MD, Banner University of Arizona Phoenix

8:23 am – 8:27 am

Feasibility and Usability of Conjoint Analysis for Distal Radius Fractures
Lauren Shapiro, MD, Stanford Hospital and Clinics

8:27 am – 8:31 am

Declining Use of Wrist External Fixation – The Rise of the Bridge Plate
Venus Vakhshori, MD, Keck School of Medicine at the University of Southern California

8:31 am – 8:35 am

Discussion

Rapid Fire Sessions 1C – Total Hip

Moderators: TBD

7:55 am – 7:59 am

Learning Curve for Direct Anterior Approach for Total Hip Arthroplasty
Tyler Goldberg, MD, Texas Orthopedics, Sports and Rehabilitation Associates

7:59 am – 8:03 am

Statin Use is Associated with Less Postoperative Arrhythmia after Total Hip Arthroplasty
Michael Chen, MD, Stanford University

8:03 am – 8:07 am

THA in HIV-Positive Patients Managed with Contemporary Protocols Outcomes
Clara L. Telford, BA, University of Texas Southwestern

8:07 am – 8:11 am

Resources and Complications in Primary Total Arthroplasty for Dialysis Patients
Joseph Patterson, MD, University of California San Francisco

8:11 am – 8:15 am

Discussion

8:15 am – 8:19 am

Incision Site Subcutaneous Fat Thickness and 90-day Complications for THA

Gregory Sprowls, MD, Baylor Scott and White Health

8:19 am – 8:23 am

Quantification of the Dorr Classification System
Tyler Goldberg, MD, Texas Orthopedics, Sports and Rehabilitation Associates

8:23 am – 8:27 am

To Cement or Not to Cement? Modern Hybrid Total Hip Replacement - Low Risks and Excellent Results with Cemented Femoral Fixation
Alexander Sah, MD, Institute for Joint Restoration

8:27 am – 8:31 am

First Report of Early Results of a Commonly Used Cementless Single Tapered Femoral Component in Primary Total Hip Arthroplasty
Alexander Sah, MD, Institute for Joint Restoration

8:31 am – 8:35 am

Discussion

Rapid Fire Sessions 1D – Sports Medicine

Moderators: TBD

7:55 am – 7:59 am

Outcomes of Arthroscopic Capsular Release Based on Patient Position
Darby A. Houck, BA, University of Colorado School of Medicine

7:59 am – 8:03 am

Regional Anesthesia for Shoulder Arthroscopy Decreases Early Opioid Requirements in Preoperative Opioid Users
Nicholas Trasolini, MD, Keck School of Medicine at the University of Southern California

8:03 am – 8:07 am

Does the ABER View Improve Preoperative Identification of Labral Lesions
Jeffrey Mait, MD, The Sports Clinic

8:07 am – 8:11 am

Scapular Retraction Test's Diagnostic Accuracy in Assessing Rotator Cuff Status
Stephen Gates, MD, University of Texas Southwestern

8:11 am – 8:15 am

Discussion

8:15 am – 8:19 am

Trans-Osseous versus Anchor Repair of Acute Patellar Tendon Ruptures
James O'Dowd, MD, University of Southern California

8:19 am – 8:23 am

Trans-Osseous Versus Anchor Repair of Acute Quadriceps Tendon Ruptures

Steven Heer, BS, Tulane School of Medicine

8:23 am – 8:27 am Return to Work After Autologous Chondrocyte Implantation of the Knee in Patients with Workers Compensation Insurance
John Lame, MD, University of California

8:27 am – 8:31 am Outcomes of Pediatric Meniscal Injuries
Stephanie Logterman, MD, University of Colorado

8:31 am – 8:35 am Discussion

Concurrent Allied Health Session 1 – Trauma

Moderator: Theodore W. Coates, PA-C, *University of California, Davis*

7:55 am – 8:55 am Non-Op Management of Fractures, Pearls and Pitfalls
Speaker TBD

8:35 am – 8:55 am ***Break – Please visit Exhibits***

General Session 1 – Howard Steel Lecture

Moderator: Brian A. Jewett, MD, *Slocum Center for Orthopedics and Sports Medicine*

8:55 am – 9:00 am Introduction of Presidential Guest Speaker
Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine

9:00 am – 9:50 am Howard Steel Presentation
Choosing Resilience: How Physicians and Medical Organizations Can Curb Burnout
Wayne M. Sotile, PhD, The Sotile Center for Resilience and the Center for Physician Resilience

9:50 am – 10:10 am ***Break – Please visit Exhibits***

Symposium 2 – Surviving Hand Call for Non-Hand Specialists – A Case Based Session with Panel of Experts

Moderator: Jeffrey E. Krygier, MD, Santa Clara Valley Medical Center

Panelists:

Gregory L. DeSilva, MD, University of Arizona Health Sciences
Kevin D. Plancher, MD, Albert Einstein College of Medicine
Robin N. Kamal, MD, Stanford University School of Medicine

10:10 am – 11:00 am Panel Discussion

11:00 am – 12:00 pm **Focused Lunch Presentation**

General Session 2 – OREF Update/WOF/OREF Young Investigator Awards

Moderator: Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

- 12:00 pm – 12:05 pm OREF Update
P. Joanne Ray, CEO Orthopaedic Research and Education Foundation
- 12:05 pm – 12:13 pm Biomarkers of Neutrophil Extracellular Trap Formation (NETosis) and their Relationship to Wound Healing in Ankle Fracture Surgery
William Kent, MD, University of California, San Diego
- 12:13 pm – 12:21 pm 3-Dimensional Virtual Reality for Pain Control in Orthopaedic Patients: A Prospective Randomized Control Study
Milton Little, MD, Cedars Sinai Medical Center
- 12:21 pm – 12:29 pm Correlation of Intraoperative Neurophysiologic Monitoring Changes with Postoperative Neurologic Deficits
Kali Tileston, MD, Stanford University
- 12:29 pm – 12:35 pm Discussion

Concurrent Allied Health Session 2 – Pediatric Sports Medicine

Moderator: Theodore W. Coates, PA-C, *University of California, Davis*

- 12:00 pm – 1:00 pm Pediatric Sports Medicine
Brian Haus, MD, Shriners Hospital for Children, Sacramento

Rapid Fire Sessions 2A – Other

Moderators: TBD

- 12:40 pm – 12:44 pm Patient Mental Health Status is Minimally Associated with Patient Satisfaction
Laura Lu, BS, Stanford University
- 12:44 pm – 12:48 pm The Effect of a Revised Curriculum on OITE Performance
Taylor Lara, MD, Oregon Health & Science University
- 12:48 pm – 12:52 pm A Structured Review Instrument Improves the Quality of Orthopaedic Journal Club
Sean Campbell, MD, Stanford University

12:52 pm – 12:56 pm	Orthopaedic Surgery Residents and the Physician Payment Sunshine Act: Are Payments to Resident Physicians Being Reported in the Open Payments Database? <i>Jason Ghodasra, MD, MSCI, University of California Los Angeles</i>
12:56 pm – 1:00 pm	Discussion
1:00 pm – 1:04 pm	Which Subspecialties Produce Best Evidence at the AAOS Annual Meeting? <i>Kimberly Souza, BS, Stanford University</i>
1:04 pm – 1:08 pm	The Thirty Year Slump: Gender Diversity in Orthopaedic Literature <i>Meghan Brown, MD, University of Southern California Medical Center</i>
1:08 pm – 1:12 pm	Gender Disparities in Industry Support of Orthopaedic Surgeons <i>Rafael Buerba, MD, MHS, University of California Los Angeles</i>
1:12 pm – 1:16 pm	Current Maternity, Paternity and Adoption Leave Policies in Orthopaedic Surgery Residencies <i>Sara Van Nortwick, MD, Stanford University</i>
1:16 pm – 1:20 pm	Discussion
1:20 pm – 1:24 pm	Can Patients and Families Read the Questionnaires for Patient Related Outcome Measures? <i>Ellen Raney, MD, Shriners Hospital for Children</i>
1:24 pm – 1:28 pm	One-Year Global Unplanned Reoperation Rates: a Useful Quality Metric in Orthopaedic Surgery? <i>Olufemi Adams, BA, BS, University of Chicago - Pritzker School of Medicine</i>
1:28 pm – 1:32 pm	Does Tailoring Discharge Opioid Regimens to Inpatient Use after Orthopaedic Procedures Affect Refill Rates? <i>Trevor Grace, MD, University of California San Francisco</i>
1:32 pm – 1:36 pm	Infection Surveillance at Ambulatory Surgical Centers <i>Jory Wasserburger, MD, University of New Mexico</i>
1:36 pm – 1:40 pm	Discussion

Rapid Fire Sessions 2B – Upper Extremity

Moderators: TBD

- 12:40 pm – 12:44 pm Nationwide Database Analysis of Intramedullary Nail vs Plate Fixation for Humeral Shaft Fractures
Paul Navo, MS, Keck School of Medicine of the University of Southern California
- 12:44 pm – 12:48 pm Early Post-Operative Outcomes of Plate Versus Nail Fixation for Humeral Shaft Fractures
Jill Goodwin, MD, University of Arizona College of Medicine
- 12:48 pm – 12:52 pm Operative versus Nonoperative Treatment of Humeral Shaft Fractures
Brian Cash, MD, University of California Los Angeles Medical Center and Orthopaedic Hospital
- 12:52 pm – 12:56 pm Relationship Of Neurovascular Structures To Multiplanar Distal Interlocking Screws In Intramedullary Humeral Nails
Garrett Steinmetz, MD, University of Oklahoma
- 12:56 pm – 1:00 pm Discussion
- 1:00 pm – 1:04 pm Low-Profile Mesh Plating For Treating Transverse Olecranon Fractures: Biomechanical Evaluation
Christina Salas, PhD, University of New Mexico
- 1:04 pm – 1:08 pm Low Complication Rates among Geriatric Olecranon Fracture Patients Treated with Plate Fixation
Sean Campbell, MD, Stanford University
- 1:08 pm – 1:12 pm Comparison of Tension Band and Plate Fixation of Olecranon Fractures
Michael Del Core, MD, University of Texas Southwestern Medical Center
- 1:12 pm – 1:16 pm Concomitant Upper Extremity Fracture Worsens Outcomes in Elderly Patients with Hip Fracture
Mary Kate Thayer, MD, University of Washington Department of Orthopaedics
- 1:16 pm – 1:20 pm Discussion
- 1:20 pm – 1:24 pm A Novel Technique for Olecranon Osteotomy for Treatment of Distal Humerus Fractures
Duncan Ramsey, MD, MPH, Oregon Health and Science University

- 1:24 pm – 1:28 pm Radial Head Instability and Limited Hand Rotation after Simulated IOM Injury
Christina Salas, PhD, University of New Mexico
- 1:28 pm – 1:32 pm Effects of Centralized Microvascular Outreach on Quality of Patient Care
Christopher Chen, MD, University of Colorado
- 1:32 pm – 1:36 pm Feasibility of Discussing Cost of Surgery at Point of Care
Laura Lu, BS, Stanford University
- 1:36 pm – 1:40 pm Discussion

Rapid Fire Sessions 2C – Total Knee

Moderators: TBD

- 12:40 pm – 12:44 pm Manipulation Rate Is Not Increased After Customized Total Knee Arthroplasty
Andrew B. Kay, MD, Houston Methodist Hospital
- 12:44 pm – 12:48 pm Does use of Robotic Technology Improve Surgeon Ergonomic Safety and Satisfaction during TKA?
Laura Scholl, MS, Mahwah, NJ
- 12:48 pm – 12:52 pm Unexpected High Failure Rate in a Patient-Specific Total Knee Arthroplasty
Kevin Park, MD, Houston Methodist Hospital
- 12:52 pm – 12:56 pm Effect of Computer Navigation on Complication Rates Following Unicompartamental Knee Arthroplasty
Deepak Chona, MD, Stanford University
- 12:56 pm – 1:00 pm Discussion
- 1:00 pm – 1:04 pm Vitamin D is Associated with Higher Complication Rates in TKA
Vishal Hegde, MD, University of California, Los Angeles
- 1:04 pm – 1:08 pm Early Opioid Cessation and Patient Reported Outcomes in Primary TKA
Andrew Summers, BS, Oregon Health & Science University
- 1:08 pm – 1:12 pm Tranexamic Acid with Limited Use Tourniquet in Total Knee Arthroplasty
Avrey Novak, BS, University of Washington School of Medicine

1:12 pm – 1:16 pm	Aminocaproic Acid Versus Tranexamic Acid in Total Joint Arthroplasty. Whats Better? <i>Zachary Lum, DO, University of California, Davis</i>
1:16 pm – 1:20 pm	Discussion
1:20 pm – 1:24 pm	Outcomes of a Unique Milling System Technique for Patellofemoral Arthroplasty <i>Alexander Sah, MD, Institute for Joint Restoration</i>
1:24 pm – 1:28 pm	Effect of Patellar Thickness on Gait Biomechanics Following Knee Arthroplasty <i>Anne Wright, MD, University of Hawaii</i>
1:28 pm – 1:32 pm	Addressing Large Tibial Osseous Defects in Primary Total Knee Arthroplasty Using Trabecular Metal Cones <i>Jae You, MD, University of Hawaii</i>
1:32 pm – 1:36 pm	Clinical Performance of a Novel 3D printed Cementless Tibial Baseplate <i>Steven Harwin, MD, Mount Sinai Hospital</i>
1:36 pm – 1:40 pm	Discussion

Rapid Fire Sessions 2D – Trauma/Hip Fractures

Moderators: TBD

12:40 pm – 12:44 pm	Time-to-Block: Early Fascia Iliac Block Reduces Opioid Use in Geriatric Hip Fractures <i>John Garlich, MD, Cedars Sinai Medical Center</i>
12:44 pm – 12:48 pm	Geriatric Hip Fractures: Regional Anesthesia with Multimodal Pain Management <i>John Garlich, MD, Cedars Sinai Medical Center</i>
12:48 pm – 12:52 pm	Single-Shot versus Continuous Fascia Iliaca Blocks for Hip Fractures <i>Stephen Stephan, MD, Cedars-Sinai Medical Center</i>
12:52 pm – 12:56 pm	Fascia Iliacus Blocks Do Not Affect Hospital Length of Stay <i>Landon Polakof, MD, Cedars-Sinai Medical Center</i>
12:56 pm – 1:00 pm	Discussion
1:00 pm – 1:04 pm	Determining Indications for Preoperative Fascia Iliac Nerve Block in Hip Fracture Patients

Eytan Debbi, MD, PhD, Cedars Sinai Medical Center

- 1:04 pm – 1:08 pm Fewer Fatal Fractures: Impact Of Comprehensive Geriatric Hip Fracture Program On 1-Year Mortality
Jason Stoneback, MD, University of Colorado School of Medicine
- 1:08 pm – 1:12 pm Predictors For Thirty-day To One-year Readmission Rates in a Geriatric Hip Fracture Population
Samuel Stephenson, MD, PhD, Cedars Sinai Medical Center
- 1:12 pm – 1:16 pm Impact of Interhospital Transfer on 30-day Hip Fracture Outcomes
David Campbell, MD, University of Arizona
- 1:16 pm – 1:20 pm Discussion
- 1:20 pm – 1:24 pm Incidence and Risk Factors for Pneumonia in Hip Fractures
Blake Eyberg, MD, University of Arizona College of Medicine
- 1:24 pm – 1:28 pm Nail versus Plate: No Difference in Hip Fracture Episode Cost
Joseph Patterson, MD, University of California San Francisco
- 1:28 pm – 1:32 pm Hip Fracture Patients Receiving Perioperative TAVR have Higher Complication Rates
Dheeraj Yalamanchili, MD, Cedars-Sinai Medical Center
- 1:32 pm – 1:36 pm Effect Of Organ Transplantation On Operative Outcomes In Hip Fractures
Bejan A. Alvandi, BS, Keck School of Medicine of the University of Southern California
- 1:36 pm – 1:40 pm Discussion
- 1:40 pm – 2:40 pm Scientific E-Poster Session (Presenters are available to answer questions.)
- 2:40 pm – 4:00 pm Multimedia Education Session

Friday, August 3

- 6:00 am – 7:00 am **Scientific E-Poster Session** (Presenters are available to answer questions.)
- 6:55 am – 7:00 am **Announcements**

Jeffrey E. Krygier, MD, Program Chair

Symposium 3 – Adult Reconstruction: Why Knees Fail – Tips and Tricks to Avoid and Manage Complications

Moderator: William J. Maloney, MD, *Stanford University School of Medicine*

- 7:00 am – 7:02 am Introduction – Current Problems and Why TKA’s Fail Today
William J. Maloney, MD, Stanford University School of Medicine
- 7:02 am – 7:12 am Wound Drainage and the Infected Knee
Jay R. Lieberman, MD, Keck School of Medicine of the University of Southern California
- 7:12 am – 7:22 am The Unstable Knee
Derek F. Amanatullah MD, PhD, Stanford University School of Medicine
- 7:22 am – 7:32 am The Stiff Total Knee
William J. Maloney, MD, Stanford University School of Medicine
- 7:32 am – 7:42 am Robotics and Total Knee Replacement – Has the Time Come?
Russell G. Cohen, MD, Tucson Orthopaedic Institute
- 7:42 am – 7:50 am Cases and Questions
- 7:50 am – 8:20 am **Focused Brunch Presentation**

Rapid Fire Sessions 3A – Pediatrics

Moderators: TBD

- 8:25 am – 8:29 am Outcomes of Meniscus Repairs in Children and Adolescent
Shawn Nguyen, DO, Riverside University of Health Sciences
- 8:29 am – 8:33 am Weight-Bearing Osteochondritis Dissecans Lesions of the Knee:
2-year Follow-Up Analysis
Liang Zhou, MD, Tripler Army Medical Center
- 8:33 am – 8:37 am Growth Arrest after Transphyseal ACL Reconstruction in
Skeletally Immature Adolescents
Thomas Melton, MD, Madigan Army Medical Center
- 8:37 am – 8:41 am A Patellar Advancement Techniques in Children with Patella
Alta and Cerebral Palsy
Jason Rhodes, MD, Children's Hospital Colorado
- 8:41 am – 8:45 am Discussion

- 8:45 am – 8:49 am Single versus Two Incision Technique for Treatment of Neuromuscular Hip Dysplasia
Sara Van Nortwick, MD, Stanford University
- 8:49 am – 8:53 am Effects of Calcaneal Lengthening Osteotomy on Foot Progression Angle in Children with Cerebral Palsy
Ryan Davenport, BS, University of Colorado School of Medicine
- 8:53 am – 8:57 am Pediatric Dual X-Ray Absorptiometry (DXA) Scores Poorly Correlate with Vertebral Fractures
Sara Van Nortwick, MD, Stanford University
- 8:57 am – 9:01 am Are Hybrid Constructs an Effective Solution for AIS Patients?
Eric Rebich, DO, Riverside University Health System
- 9:01 am – 9:05 am Discussion

Rapid Fire Sessions 3B – Foot & Ankle/Ankle injuries

Moderators: TBD

- 8:25 am – 8:29 am The Incidence of Plafond Impaction in Pronation-Abduction Ankle Fractures and the Role of Computed Tomography in Diagnosis and Surgical Planning
Ram Alluri, MD, Keck School of Medicine at the University of Southern California
- 8:29 am – 8:33 am Ankle Fractures: Ottawa Ankle Rules Need Geriatric Modifier
Dave Weiner, MD, Union Memorial Hospital
- 8:33 am – 8:37 am Predicting Risk of Complications in Diabetic Patients with Ankle Fractures
Robin Dunn, MD, University of Colorado
- 8:37 am – 8:41 am Quality and Utility of Immediate PACU Radiographs After Ankle Fractures
Tony Pedri, MD, University of New Mexico
- 8:41 am – 8:45 am Discussion
- 8:45 am – 8:49 am Tibiotalar Pressure Mechanics After Instrumentation with Screws Vs. Suspensory Fixation
Eric Pang, MD, Stanford University
- 8:49 am – 8:53 am Cost-Effectiveness of Screw Versus Suture Button Fixation in Syndesmotic Injuries

Duncan Ramsey, MD, MPH, Oregon Health and Science University

8:53 am – 8:57 am

Open Visualization vs Palpation for Reduction of the Syndesmosis

Eric Pang, MD, Stanford University

8:57 am – 9:01 am

Evaluating Current Treatment Strategies for Syndesmosis Injuries in Athletes

Michael Reiter, MD, University of Colorado School of Medicine

9:01 am – 9:05 am

Discussion

Rapid Fire Sessions 3C – Sports Medicine

Moderators: TBD

8:25 am – 8:29 am

Functional Outcomes of Rotator Cuff Repairs in Patients in Patients Over 75 Years Old

Daniel Brereton, DO, Riverside University Health System

8:29 am – 8:33 am

Biceps Tendon Tenodesis without Tenotomy: A Means of Augmenting Repair of Massive Rotator Cuff Tears

Steven Barad, MD, Methodist Hospital

8:33 am – 8:37 am

Effect of Prior Bariatric and Transplant Surgery on Rotator Cuff Tears

Anthony Essilfie, MD, University of Southern California

8:37 am – 8:41 am

Clinical and Radiographic Outcomes of a Novel Acromioclavicular-Coracoclavicular (AC/CC) Reconstruction

Joseph Cooper, MD, Keck School of Medicine at University of Southern California

8:41 am – 8:45 am

Discussion

8:45 am – 8:49 am

Is Arthroscopy at Time of Medial Patellofemoral Ligament Reconstruction Necessary?

Christopher Shultz, MD, University of New Mexico

8:49 am – 8:53 am

Risk Factors for Early Revision Anterior Cruciate Ligament Reconstruction

Matthew Gallo, BA, Keck School of Medicine of the University of Southern California

8:53 am – 8:57 am

Validation of PROMIS Computer Adaptive Testing for Multi-Ligament Knee Reconstruction

Shane Korber, BS, Keck School of Medicine of the University of Southern California

8:57 am – 9:01 am Are Orthopaedic Surgeons Performing Fewer Arthroscopic Partial Meniscectomies in Patients Greater Than 50 Years Old? A National Database Study
Hyunwoo Kang, MD, Keck School of Medicine of the University of Southern California

9:01 am – 9:05 am Discussion

Rapid Fire Sessions 3D – Trauma
Moderators: TBD

8:25 am – 8:29 am The Super Elderly (≥ 80 years old) Do Not Have Higher Inpatient Morbidity Than Young Geriatric (65-79 years old) Pelvic Insufficiency Fractures
Sean Rajae, MD, Cedars-Sinai Medical Center

8:29 am – 8:33 am Retrospective Examination of Tension Band Plate Fixation in Transverse and Comminuted Patella Fractures
Sean Mitchell, MD, University of Arizona College of Medicine Phoenix

8:33 am – 8:37 am Patient-Reported Outcomes After Pelvic and Acetabular Fractures: A Preliminary Study
Conor Kleweno, MD, Harborview Medical Center

8:37 am – 8:41 am Location of Pelvic Ballistic Fracture and Associated Visceral Injuries
Mary Kate Erdman, MD, University of Southern California

8:41 am – 8:45 am Discussion

8:45 am – 8:49 am Current Drug and Alcohol Use in Orthopedic Trauma Patients
D'Ann Arthur, MD, Harbor-University of California Los Angeles Medical Center

8:49 am – 8:53 am Surgical Delay Increases the Rate of 30 Day Complications and Mortality in Femoral Shaft Fractures
Robert Walker, MD, University of Arizona College of Medicine

8:53 am – 8:57 am Prophylactic Fixation of Osteoporotic Hip Fractures
Daniel Brereton, DO, Riverside University Health System

8:57 am – 9:01 am Outcomes of Femoral Head Fractures Associated with Traumatic Hip Dislocations
Michael Del Core, MD, University of Texas Southwestern Medical Center

9:01 am – 9:05 am Discussion

Concurrent Allied Health Session 3 – Radiology

Moderator: Theodore W. Coates, PA-C, *University of California, Davis*

8:25 am – 9:25 am Imaging of the Wrist and Hand
Andrew Sonin, MD, FACR, Radiology Imaging Associates, PC

9:05 am – 9:25 am ***Break – Please visit Exhibits***

General Session 3 – AAOS Report & Presidential Guest Speaker

Moderator: Brian A. Jewett, MD, *Slocum Center for Orthopedics and Sports Medicine*

9:25 am – 9:40 am AAOS Report
David A. Halsey, MD, President

9:40 am – 9:45 am Introduction of Presidential Guest Speaker
Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine

9:45 am – 10:35 am Presidential Guest Speaker
Succeeding in the Brave New/Old World: Facts are Stubborn Things!
Nathan S. Kaufman, Kaufman Strategic Advisors

10:35 am – 10:55 am ***Break – Please visit Exhibits***

Symposium 4 – Orthopaedic Business

Moderator: Michael J. McCaslin, CPA, *Somerset CPA and Advisors*

10:55 am – 11:10 am Orthopedic Business in 2018
Michael J. McCaslin, CPA, Somerset CPAs and Advisors

11:10 am – 11:25 am Advanced Payment Models and Hospital Relations
Nathan S. Kaufman, Kaufman Strategic Advisors

11:25 am – 11:40 am Orthopedic Urgent Cares
Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine

11:40 am – 11:45 am Discussion

11:45 am – 12:15 pm

Focused Lunch Presentation

General Session 4 – WOF Report & Western Orthopaedic Foundation Named Grants

Moderator: TBD

12:15 pm – 12:25 pm

WOF Report

Robert R. Slater, Jr., MD, Folsom, CA

12:25 pm – 12:31 pm

WOF Robert R. Slater, Jr., MD Travel Grant

Complications in Computer Navigated vs Conventional Total Hip Arthroplasty

Blake Montgomery, MD, Stanford University

12:31 pm – 12:37 pm

WOF Brian A. Jewett, MD Travel Grant

Application of Patient-Reported Outcome Measurement Information System in Elite Athletes

Jesse Roberts, MD, University of Colorado

12:37 pm – 12:43 pm

WOF Jeffrey E. Krygier, MD Travel Grant

A Preoperative Score for Predicting 30-Day Readmission after Elective 1-2 Level Posterior Lumbar Spinal Fusion

Deeptee Jain, MD, University of California, San Francisco

12:43 pm – 12:49 pm

WOF Jeffrey M. Nakano, MD Travel Grant

Efficacy of a Team-Based Approach to Improving Antibiotic Administration in Open Fractures

Alvin Shieh, MD, University of California Davis

12:49 pm – 12:55 pm

WOF Paul C. Collins, MD Travel Grant

The Influence of an Unexpected Gift on Patient Satisfaction

Allison Roe, MD, Stanford University

12:55 pm – 1:01 pm

WOF Basil R. Besh, MD Travel Grant

Timing Of Lumbar Spinal Fusion Impacts Total Hip Arthroplasty Outcomes

Abiram Bala, MD, Stanford University

1:01 pm – 1:07 pm

WOF Milton L. “Chip” Routt, Jr., MD Travel Grant

Mouse Spine Implant Infection Model: Fluorescent Probe Detects Multiple Bacteria

Gideon Blumstein, MD, MS, University of California Los Angeles

1:07 pm – 1:13 pm

WOF Named Travel Grant

Smoking and Total Hip Arthroplasty in 2014: Increased Complications and Costs

Eytan Debbi, MD, PhD, Cedars Sinai Medical Center

1:13 pm – 1:20 pm Discussion

Rapid Fire Sessions 4A – Basic Science

Moderators: TBD

1:25 pm – 1:29 pm Local Delivery of Supplemental Agrin Prevents Motor Endplate Degradation

Winnie Palispis, MD, University of California, Irvine

1:29 pm – 1:33 pm hES-Pericyte Conditioned Media Rescue Myotube Atrophy In Vitro

Regina Husman, BS, David Geffen School of Medicine at University of California Los Angeles

1:33 pm – 1:37 pm Differentially Expressed Micro-RNA in Rotator Cuff Tendinopathy Using RNA-Sequencing

Kimberly Hall, MD, Stanford Hospital and Clinics

1:37 pm – 1:41 pm Accuracy of 3D Printed Bone Models Using Open Source Software

Trevor Shelton, MD, MS, University of California, Davis

1:41 pm – 1:45 pm Discussion

1:45 pm – 1:49 pm Anti-Inflammatory Peptide Enhances New Bone Formation and Reduces Inflammation in Rhbmp-2-Mediated Spine Fusion

Phillip Behrens, MD, Cedars-Sinai Medical Center

1:49 pm – 1:53 pm Characterization of Stable and Endochondral Human Articular Cartilage Progenitor Cells

Phillip Lam, BS, Oregon Health & Science University

1:53 pm – 1:57 pm Mouse Spine Implant Infection Model: Fluorescent Probe Detects Multiple Bacteria

Gideon Blumstein, MD, MS, University of California Los Angeles

1:57 pm – 2:01 pm “Smart” Pedicle Probe for Residency Motor Skills Evaluation & Training

Christina Salas, PhD, University of New Mexico

2:01 pm – 2:05 pm Discussion

2:05 pm – 2:09 pm Masquelet Model to Evaluate Engineered Induced Membranes for Bone Healing

Malcolm DeBaun, MD, Stanford University

- 2:09 pm – 2:13 pm Toward Translational Treatments: A Novel Model of Revision Arthroplasty
Zachary D.C. Burke, MD, David Geffen School of Medicine at University of California Los Angeles
- 2:13 pm – 2:17 pm Single-stage Revision with Tobramycin-loaded Polymethylmethacrylate is Ineffective in Periprosthetic Infection Model
Zachary D.C. Burke, MD, David Geffen School of Medicine at University of California Los Angeles
- 2:17 pm – 2:21 pm Greater Muscle Degeneration in Aged Mice After Rotator Cuff Injury
Abhinav Sharma, BS, David Geffen School of Medicine at University of California Los Angeles
- 2:21 pm – 2:25 pm Discussion

Rapid Fire Sessions 4B – Sports Medicine

Moderators: TBD

- 1:25 pm – 1:29 pm Fixed-versus Adjustable-Loop Devices for ACLR: A Systematic Review and Meta-Analysis
Darby A. Houck, BA, University of Colorado School of Medicine
- 1:29 pm – 1:33 pm New Biomechanical Testing Standards for Adjustable Femoral Cortical Suspension Devices
Alexander Peterson, MD, Tibor Rubin Long Beach VA Medical Center
- 1:33 pm – 1:37 pm Estimating the Length of Semitendinosus and Gracilis Tendons by MRI
Ali Qadeer, MD, Baylor College of Medicine
- 1:37 pm – 1:41 pm ACL and ATSF Injury Epidemiology and Risk Factors in Skiers
Benjamin Albertson, MD, University of New Mexico
- 1:41 pm – 1:45 pm Discussion
- 1:45 pm – 1:49 pm Supplementation of Vitamin D in Division I NCAA Athletes
Shane Korber, BS, Keck School of Medicine of the University of Southern California

- 1:49 pm – 1:53 pm Early Return from Concussion Associated with Increased Injury in Athletes
Garrett Harada, BA, David Geffen School of Medicine at University of California Los Angeles
- 1:53 pm – 1:57 pm The Epidemiology of Concussions in a NCAA Division I Female Soccer Team
Santano Rosario, BA, Keck School of Medicine at the University of Southern California
- 1:57 pm – 2:01 pm Effect of Artificial Turf VS. Natural Grass on Knee Injuries in NCAA Football: 10 Year Report
Galvin Loughran, BS, Georgetown University School of Medicine
- 2:01 pm – 2:05 pm Discussion
- 2:05 pm – 2:09 pm Division I Collegiate Athletes Have a High Return-to-Sport Rate Following Hip Arthroscopy for Femoroacetabular Impingement Syndrome
Haley Nakata, BS, Keck School of Medicine at the University of Southern California
- 2:09 pm – 2:13 pm Factors Determining Safe Return to Driving After Hip Arthroscopy
Mika De Coster, BS, Keck School of Medicine of the University of Southern California
- 2:13 pm – 2:17 pm Incidence and Management of Heterotopic Ossification Following Arthroscopic Hip Surgery
Michael Huang, MD, Colorado Springs Orthopaedic Group
- 2:17 pm – 2:21 pm Hip Arthroscopy in Older Patients: Is it Worth it?
Michael Muldoon, MD, Hip Preservation Center of Excellence
- 2:21 pm – 2:25 pm Discussion
- Rapid Fire Sessions 4C – Trauma**
Moderators: TBD
- 1:25 pm – 1:29 pm Which Trauma Patients Need Psychiatry Consultation?: A Pilot Survey Study
Sean Campbell, MD, Stanford University
- 1:29 pm – 1:33 pm Blade Plating of High-energy Proximal Femur Fractures Results in Union and Minimal Complications
Matthew Weldon, MD, University of Texas at Houston

- 1:33 pm – 1:37 pm Does Screw Location Affect the Risk of Subtrochanteric Femur Fracture After Femoral Neck Fixation?
Erica Crump, MD, Naval Medical Center San Diego
- 1:37 pm – 1:41 pm Are Piriformis Reconstruction Nails Ideal for Prophylactic Femoral Neck Fixation?
Alvin Shieh, MD, University of California Davis
- 1:41 pm – 1:45 pm Discussion
- 1:45 pm – 1:49 pm Management of Aseptic Pertrochanteric Femoral Fracture Nonunions
Michael Duran, MD, University of Arizona College of Medicine
- 1:49 pm – 1:53 pm Healing the Index Humeral Nonunion Surgery
Donald Wiss, MD, Cedars Sinai Medical Center
- 1:53 pm – 1:57 pm Cost of Fracture Non-Unions: a NIS Analysis
Hanne Gehling, BS, Providence Orthopedic Institute
- 1:57 pm – 2:01 pm Clavicle Nonunions: Plate and Graft Type Do Not Effect Healing Rates
Donald Wiss, MD, Cedars Sinai Medical Center
- 2:01 pm – 2:05 pm Discussion
- 2:05 pm – 2:09 pm Regional Anesthesia Decreases Length of Stay in Tibial Shaft Fractures
Ryan DiGiovanni, MD, Banner University Medical Center
- 2:09 pm – 2:13 pm Outcomes and Complications of SIGN Intramedullary Nailing of the Tibia
Nikolas Baksh, MD, Oregon Health & Science University
- 2:13 pm – 2:17 pm Flexed versus Semi-extended Positioning for Tibial Nailing: Changing Practice Patterns
Lawrence Goodnough, MD, PhD, Stanford University
- 2:17 pm – 2:21 pm Infection Rates of Low-Velocity Gunshot Femur Fractures Treated Without Debridement
Jessica Bear, MD, Hospital for Special Surgery
- 2:21 pm – 2:25 pm Discussion

Rapid Fire Sessions 4D – Total Joint

Moderators: TBD

- 1:25 pm – 1:29 pm Insurance Status Predicts Morbidity, Mortality, and Cost in Revision Total Joint Arthroplasty
Blake Eyberg, MD, University of Arizona College of Medicine
- 1:29 pm – 1:33 pm Use of a 2D/3D Registration Method to Evaluate the Psoas Impingement in Total Hip Arthroplasty
Ahmad Faizan, PhD, Mahwah, NJ
- 1:33 pm – 1:37 pm Mortality During Total Hip Periprosthetic Joint Infection: A Meta-Analysis
Zachary Lum, DO, University of California, Davis
- 1:37 pm – 1:41 pm Immediate Impact of Tranexamic Acid in Blood Conservation in Primary Total Joint Replacement
Alexander Sah, MD, Institute for Joint Restoration
- 1:41 pm – 1:45 pm Discussion
- 1:45 pm – 1:49 pm A Comparison of Traumatic Hip Fracture & Primary Elective Total Hip Patients: Comorbidity Burden, Hospital Course, Postoperative Complications and Cost of Care Analysis
Sean Mitchell, MD, University of Arizona College of Medicine Phoenix
- 1:49 pm – 1:53 pm Same Day Total Hip Arthroplasty at an Ambulatory Surgical Center vs. a Hospital: Similar Results at Lower Cost
Hanne Gehling, BS, Providence Orthopedic Institute
- 1:53 pm – 1:57 pm Isolated Greater Trochanteric Fracture and the Direct Anterior Approach Using a Fracture Table
Bradley Graw, MD, Palo Alto Medical Foundation
- 1:57 pm – 2:01 pm An In-Vitro Comparative Assessment of Acetabular Cup Removal Systems
Louis Kwong, MD, Harbor-University of California Los Angeles Medical Center
- 2:01 pm – 2:05 pm Discussion
- 2:05 pm – 2:09 pm Mortality During Total Knee Periprosthetic Joint Infection: A Meta Analysis
Zachary Lum, DO, University of California, Davis

2:09 pm – 2:13 pm	Conversion Rates and Timing to Total Knee Arthroplasty Following ACL Reconstruction: A United States Population-Based Study <i>Jacob Bobman, MD, Keck School of Medicine at the University of Southern California</i>
2:13 pm – 2:17 pm	Bilateral Simultaneous Versus Staged Total Knee Arthroplasty: Minimal Perioperative Risk-Differences <i>Ellen Tsay, BS, MS, University of California, San Francisco</i>
2:17 pm – 2:21 pm	Distal Femur Locking Plates Fit Poorly After Total Knee Arthroplasty <i>Sean Campbell, MD, Stanford University</i>
2:21 pm – 2:25 pm	Discussion
2:25 pm – 3:25 pm	Scientific E-Poster Tour Moderators: Jeffrey E. Krygier, MD, <i>Santa Clara Valley Medical Center</i> Julius A. Bishop, MD, <i>Stanford HealthCare</i>
3:25 pm – 4:25 pm	Multimedia Education Session

Saturday, August 4

5:40 am – 6:40 am	Scientific E-Poster Session (Presenters are available to answer questions.)
6:40 am – 6:45 am	Announcements <i>Jeffrey E. Krygier, MD, Program Chair</i>
6:45 am – 7:00 am	Second Business Meeting
General Session 5 – WOF Resident Awards	
Moderator: Jeffrey E. Krygier, MD, <i>Santa Clara Valley Medical Center</i>	
7:00 am – 7:06 am	Influence of Capsular Laxity and Labral Integrity on Hip Stability <i>Adam Johannsen, MD, Stanford University</i>
7:06 am – 7:12 am	C1-C3 Construct with Short C2 Pedicle Screws versus Goel-Harms Fixation <i>Young Lu, MD, University of California, Irvine</i>
7:12 am – 7:18 am	When is an Orthopaedic Intern Ready to Take Call?

Derek Smith, MD, Oregon Health and Science University

- 7:18 am – 7:24 am Comparing AHD Between MRI and X-Ray in Massive Cuff Tears
Steven Donohoe, MD, Keck School of Medicine of the University of Southern California
- 7:24 am – 7:30 am Innervation of the Subscapularis: An Anatomical Study
Brian Sager, MD, University of Texas Southwestern
- 7:30 am – 7:36 am Pre-Operative CT Can Predict Post-Operative Shortening of Extra-Capsular Hip Fractures
Garin Hecht, MD, Harborview Medical Center
- 7:36 am – 7:42 am Intramedullary Nailing Versus Lateral Locked Plating for Distal Femur Fractures
K. Chandra Vemulapalli, MD, University of Texas Health McGovern Medical School
- 7:42 am – 7:50 am Discussion

Symposium 5 – Trauma

Moderator: Timothy S. Achor, MD, *Memorial Hermann Texas Medical Center*

- 7:50 am – 8:02 am How to Avoid Non-Unions
Alexandra K. Schwartz, MD, University of California, San Diego
- 8:02 am – 8:14 am Healthcare Finance and Trauma Coding
Peter L. Althausen MD, MBA, Reno Orthopedic Clinic
- 8:14 am – 8:26 am Humeral Shaft Fractures: What’s Current? What’s Controversial?
Clifford B. Jones, MD, The CORE Institute
- 8:26 am – 8:36 am Case Discussion
- 8:36 am – 08:40 am Discussion
- 8:40 am – 9:10 am **Focused Brunch Presentation**

Rapid Fire Sessions 5A – Tumor

Moderators: Chaffy (full name and institution)
Bryan S. Moon, MD, *MD Anderson Cancer Center*

- 9:15 am – 9:19 am Distal Femoral Compressive Osseointegration Endoprostheses: A Minimum Ten-Year Follow-Up Study

Kara Tanaka, MFA, University of California, San Francisco

- 9:19 am – 9:23 am Compress Mechanical Failure Assessment Using Radiographic Parameter Driven Decision Tree
Lindsay Parlee, BS, Med, Oregon Health and Science University
- 9:23 am – 9:27 am Vascularized Fibula Grafting in the Operative Treatment of Bone Tumors
Mark Landau, PhD, Keck School of Medicine of the University of Southern California
- 9:27 am – 9:31 am Incidence of Amputees Who Could Benefit From an Osseointegrated Prosthesis
Melissa Zimel, MD, University of California, San Francisco
- 9:31 am – 9:35 am Discussion
- 9:35 am – 9:39 am Outcomes of Reamer Irrigator Aspirator in Metastatic Femoral Intramedullary Nails
Alexandra Callan, MD, University of Texas Southwestern Medical Center
- 9: 39 am – 9:43 am PROMIS Outcomes Following Surgical Intervention for Metastatic Bone Disease: Analysis of Early Enrollment in a Multicenter Cohort Study
Daniel Lerman, MD, Institute Limb Preservation, OrthoONE, Presbyterian/St. Luke's Medical Center
- 9:43 am – 9:47 am Pattern of Radiation Referral After Femoral Stabilization in Metastatic Disease
Andrew Summers, BS, Oregon Health & Science University
- 9:47 am – 9:51 am Host Immune Response in Undifferentiated Pleomorphic Sarcoma – 10-year Retrospective Analysis
Joey Sheridan, BS, University of California, San Francisco
- 9:51 am – 9:55 am Discussion

Rapid Fire Sessions 5B – Upper Extremity/Shoulder

Moderators: Cheung (full name and institution)

- 9:15 am – 9:19 am Utility for Radiographs in Diagnosing Hill-Sachs and Bankart Lesions: NO NEED Pre-Reduction Radiology
Dave Milzman, MD, George Washington School of Medicine

- 9:19 am – 9:23 am Distal Tibial Allograft Glenoid Reconstruction for Recurrent Shoulder Instability
Sevag Bastian, MD, Kerlan-Jobe Orthopaedic Clinic
- 9:23 am – 9:27 am Intraoperative Clavicle Fracture Characterization and Radiographic Outcomes After Operative Fixation
Nicholas J. Drayer, MD, Madigan Army Medical Center
- 9:27 am – 9:31 am Effect of Pre-Operative Opioid Usage on Pain Following Arthroplasty
William Curtis, BS, Keck School of Medicine
- 9:31 am – 9:35 am Discussion
- 9:35 am – 9:39 am Vascularized Dermal Autograft for the Treatment of Irreparable Rotator Cuff Tears
Michael Stone, MD, Keck School of Medicine at the University of Southern California
- 9: 39 am – 9:43 am Latissimus Transfer With or Without SCR for Irreparable Cuff Tears
Sevag Bastian, MD, Kerlan-Jobe Orthopaedic Clinic
- 9:43 am – 9:47 am Patient Reported Outcomes at Various Stages of Shoulder Adhesive Capsulitis
Benjamin Schell, MD, University of Texas Southwestern Medical Center
- 9:47 am – 9:51 am Axillary and Radial Nerve Proximity to Latissimus Insertion: A Cadaveric Study
Stephen Gates, MD, University of Texas Southwestern
- 9:51 am – 9:55 am Discussion

Rapid Fire Sessions 5C – Trauma
Moderators: TBD

- 9:15 am – 9:19 am Percutaneous Transiliac-Transsacral Fixation of Sacral Insufficiency Fractures Improves Ambulation and Rate of Disposition to Home
J. Brock Walker, MD, University of Arizona College of Medicine
- 9:19 am – 9:23 am Superior Pubic Ramus Screw Fixation: Radiographic Assessment of Successful Medullary Screw Insertion
Brock Foster, MD, University of Southern California

- 9:23 am – 9:27 am Safety of Medullary Superior Pubic Ramus Screws
James Learned, MD, University of California Irvine Medical Center
- 9:27 am – 9:31 am A Biomechanical Study of Three Methods of Fixing Acetabular Fractures
Weston Ryan, BS, University of Colorado Denver School of Medicine
- 9:31 am – 9:35 am Discussion
- 9:35 am – 9:39 am Restoring Condylar Width: Radiographic Relationship Between The Lateral Tibial Plateau And Lateral Femoral Condyle In Normal Adult Knees
Nima Kabirian, MD, University of Southern California
- 9: 39 am – 9:43 am Lateral Articular Involvement in Tibial Plateau Schatzker Type IV Fractures
Mary Kate Erdman, MD, University of Southern California
- 9:43 am – 9:47 am Heterotopic Ossification About the Knee in Floating Knee Injuries
Trevor Shelton, MD, MS, University of California, Davis
- 9:47 am – 9:51 am Evaluation of Lateral C-Arm Drape Contamination During Lower Extremity Fracture Surgery: A Prospective Pilot Study
Erin Haggerty, MD, Cedars Sinai Medical Center
- 9:51 am – 9:55 am Discussion

Rapid Fire Sessions 5D – Sports Medicine

Moderators: TBD

- 9:15 am – 9:19 am Fists of Fury But No fractures : Fighting in the National Hockey League
Aidan Neustadtyl, BS, Georgetown University
- 9:19 am – 9:23 am Prevalence and Treatment of Humeral Head Avascular Necrosis in Transplant and Bariatric Surgery Patients: A Population-Based Study
Kavitha Thiagarajan, BA, Keck School of Medicine at the University of Southern California
- 9:23 am – 9:27 am Characterization of Metal Debris From Refurbished Arthroscopic Shavers

Louis Kwong, MD, Harbor-University of California Los Angeles Medical Center

- 9:27 am – 9:31 am Treatment Injections for Lateral Epicondylitis: A Systematic Review of Overlapping Meta-Analyses
Darby A. Houck, BA, University of Colorado School of Medicine
- 9:31 am – 9:35 am Discussion
- 9:35 am – 9:39 am Pediatric And Adolescent Injury In Rodeo: A Systematic Review
Jason Stoneback, MD, University of Colorado School of Medicine
- 9: 39 am – 9:43 am Measurements of Femoroacetabular Impingement Reliable across Various Levels of Training
Ryan Bickley, BA, Johns Hopkins University School of Medicine
- 9:43 am – 9:47 am Evaluation of Preoperative Diagnostic and Treatment Costs Prior to Articular Cartilage Restoration Surgery
Brenda Iglesias, BA, David Geffen School of Medicine at University of California Los Angeles & Charles Drew University of Medicine and Science
- 9:47 am – 9:51 am Comparison of Injury Rate and Pattern of Collegiate Beach and Indoor Volleyball
Alexis Rounds, BS, Keck School of Medicine at the University of Southern California
- 9:51 am – 9:55 am Discussion
- 9:55 am – 10:20 am ***Break – Please visit Exhibits***

Symposium 6 – Foot and Ankle – Acute Injuries to the Foot and Ankle

Moderator: Kenneth J. Hunt, MD, *University of Colorado School of Medicine*

- 10:20 am – 10:30 am Syndesmotic Injuries
Daniel L. Moon, MD, University of Colorado School of Medicine
- 10:30 am – 10:40 am Lateral Ankle Ligament Injuries
Kenneth J. Hunt, MD, University of Colorado School of Medicine
- 10:40 am – 10:50 am Achilles Tendon Injuries
Douglas E. Lucas, DO, Centura Health Physician Group
- 10:50 am – 11:00 am Backcountry Ankle Trauma

Christopher B. Hirose, MD, Saint Alphonsus Coughlin Foot and Ankle Clinic

11:00 am – 11:08 am Case Discussion

11:08 am – 11:10 am Questions

General Session 6 – Own the Bone, BOC Report & Presidential Address

Moderator: Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*

11:10 am – 11:20 am Own the Bone
Fred C. Redfern, MD, Henderson, NV

11:20 am – 11:25 am BOC Report
Bryan S. Moon, MD, MD Anderson Cancer Center

11:25 am – 11:40 am Presidential Address
The WOA and YOU
Brian A. Jewett, MD, Slocum Center for Orthopedics and Sports Medicine

Concurrent Allied Health Session 4 – Case Review

Moderator: Theodore W. Coates, PA-C, *University of California, Davis*

11:15 am – 12:15 pm Bring Your Cases to Discuss
Basil R. Besh, MD, Fremont Orthopaedic & Rehabilitative Medicine

Rapid Fire Session 6A – Foot & Ankle

Moderators: TBD

11:45 am – 11:49 am Short Term Complications in Geriatric Ankle Fractures Using a Protocolized Approach to Surgical Treatment
Gerard Chang, MD, Thomas Jefferson University Hospital

11:49 am – 11:53 am Impact of Time to Surgery for Closed Supination External Rotation (OTA/AO 44-B) Ankle Fractures
Anthony Essilfie, MD, University of Southern California

11:53 am – 11:57 am Examining Outcomes of Percutaneous Ankle Fixation in Diabetic Patients
Sean Mitchell, MD, University of Arizona College of Medicine Phoenix

11:57 am – 12:01 pm Diagnostic Validation of Dynamic Ultrasound Evaluation of Supination-External Rotation Ankle Injuries

Cara Fisher, MS, University of North Texas Health Science Center

- 12:01 pm – 12:05 pm Discussion
- 12:05 pm – 12:09 pm Dual Purpose Use of FHL Tendon for Management of Chronic Achilles Ruptures
Mohammed Khalid, MD, University of Texas Medical Branch
- 12:09 pm – 12:13 pm All-Soft Suture Anchor Versus Suture Bridge Construct For Insertional Achilles Tendon Repairs
Eric Lakey, BS, University of Colorado School of Medicine
- 12:13 pm – 12:17 pm Achilles Sleeve Avulsions: Clinical Features Including Description of a New Radiographic Sign
Christopher Shultz, MD, University of New Mexico
- 12:17 pm – 12:21 pm Gender Differences on SF-36 Patient-Reported Outcomes of Diabetic Foot Disease
Michael Del Core, MD, University of Texas Southwestern Medical Center
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm A Comparison of Calcaneal Osteotomies for Charcot-Marie-Tooth Varus Hindfoot Deformity
Tonya An, MD, MA, Cedars-Sinai
- 12:29 pm – 12:33 pm Radiological Assessment of Sesamoid Reduction after Chevron-Akin Double Osteotomy
Jie Chen, MD, MPH, University of Texas Medical Branch
- 12:33 pm – 12:37 pm Arthroscopic versus Open MTP Arthrodesis: A Biomechanical Comparison
Christopher Chen, MD, University of Colorado
- 12:37 pm – 12:41 pm The Influence of Percentile Weight Bearing on Foot Radiographs
Trevor Shelton, MD, MS, University of California, Davis
- 12:41 pm – 12:45 pm Discussion

Rapid Fire Session 6B – Spine

Moderators: Nitin N. Bhatia, MD, *University of California, Irvine*

- 11:45 am – 11:49 am Lumbar Subcutaneous Adipose to Spinous Process Depth Ratio as a Predictor for Surgical Complications

Kylie Shaw, BA, David Geffen School of Medicine at University of California Los Angeles

- 11:49 am – 11:53 am Risk Factors for Readmission and Complications in Obese and Morbidly Obese Patients Undergoing Elective Posterior Spinal Fusion
Deeptee Jain, MD, University of California, San Francisco
- 11:53 am – 11:57 am Complications of Modified Single-incision Wiltse Approach to the Lumbar Spine
Nikolas Baksh, MD, Oregon Health & Science University
- 11:57 am – 12:01 pm A “Smart” Antimicrobial Implant Coating to Prevent Spinal Implant Infection
Vishal Hegde, MD, University of California, Los Angeles
- 12:01 pm – 12:05 pm Discussion
- 12:05 pm – 12:09 pm Multimodal Analgesia and Narcotic Consumption In Elective Spinal Fusion Patients
Max Haffner, BS, University of California, Davis
- 12:09 pm – 12:13 pm Rapid Recovery Pathway for the Adolescent Idiopathic Scoliosis
Eli Ahdoot, DO, Children's Hospital of Orange County
- 12:13 pm – 12:17 pm Preemptive Opioid-Sparing Pain Protocol Decreases Hospital Stay in Scoliosis Patients
Selina Poon, MD, Shriners for Children Medical Center, Pasadena
- 12:17 pm – 12:21 pm Complications Associated with Temporary Internal Distraction in Severe Scoliosis
Graham T. Fedorak, MD, Shriners Hospital for Children, Salt Lake City
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm Outcomes After Spinal Fusion in Patients with Obstructive Sleep Apnea
Charles Lin, BSE, University of California, Irvine
- 12:29 pm – 12:33 pm Surgical Intervention for Cauda Equina in the Second and Third Trimesters of Pregnancy: A Case Series
Nicole Look, MD, University of Colorado Anschutz Medical Center

12:33 pm – 12:37 pm	Insurance and Employment Affect the Presence of Waddell Signs <i>Stephanie Radoslovich, BA, Oregon Health & Science University</i>
12:37 pm – 12:41 pm	Construct Validity of the Fundamentals of Spinal Surgery (FOSS) Simulator <i>Winnie Palispis, MD, University of California, Irvine</i>
12:41 pm – 12:45 pm	Discussion
Rapid Fire Session 6C – Trauma	
Moderators: TBD	
11:45 am – 11:49 am	Greater Trochanteric Fractures with Intertrochanteric Extension: What is the Rate of Displacement? <i>William Kent, MD, University of California, San Diego</i>
11:49 am – 11:53 am	Kinematic Analysis of Sagittal Plane Stability of Delta Frame External Fixation <i>Addison Wood, DO, PhD, John Peter Smith Hospital</i>
11:53 am – 11:57 am	Current Trends in the Management of Flail Chest <i>J. Brock Walker, MD, University of Arizona College of Medicine</i>
11:57 am – 12:01 pm	Diagnosis of Traumatic Shoulder Arthrotomies using Saline Load Test with Intra-Articular Pressure Monitoring <i>Matthew Belton, MD, University of Colorado School of Medicine</i>
12:01 pm – 12:05 pm	Discussion
12:05 pm – 12:09 pm	Orthopaedic Trauma Quality Measures for Value Based Healthcare Delivery <i>Malcolm DeBaun, MD, Stanford University</i>
12:09 pm – 12:13 pm	Surgical and Functional Outcomes of Patella Fractures Treated with Plate Osteosynthesis <i>Hayley Jansson, MD, Harbor-University of California Los Angeles Medical Center</i>
12:13 pm – 12:17 pm	VTE Occurrences in Pelvic & Lower Extremity Trauma Despite Modern Prophylactic Protocols <i>Sean Mitchell, MD, University of Arizona College of Medicine Phoenix</i>
12:17 pm – 12:21 pm	Prolonged Opioid Use Following Geriatric Hip Fracture Surgery <i>John Garlich, MD, Cedars Sinai Medical Center</i>

- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm Dramatically Increased Rate of Mortality Associated with Atypical Hip Fractures
Robert Walker, MD, University of Arizona College of Medicine
- 12:29 pm – 12:33 pm Current Trends in Postoperative Opioid Prescriptions after Ankle Fracture Surgery
Michael Chen, MD, Stanford University
- 12:33 pm – 12:37 pm Early Post-Operative Radiographs Have No Effect On Patient Satisfaction
Blake Schultz, MD, Stanford University
- 12:37 pm – 12:41 pm X-Ray Does Not Adequately Assess Intertrochanteric Fracture Lateral Wall Morphology
Garin Hecht, MD, Harborview Medical Center
- 12:41 pm – 12:45 pm Discussion

Rapid Fire Session 6D – Upper Extremity/ Shoulder & Elbow

Moderators: TBD

- 11:45 am – 11:49 am Short-Term Outcomes of Outpatient Total Shoulder Arthroplasty Protocol
Richard Auran, MD, University of Arizona College of Medicine - Phoenix
- 11:49 am – 11:53 am Socioeconomic and Ethnic Disparities in Pain Following Total Shoulder Arthroplasty
Alexis Rounds, BS, Keck School of Medicine at the University of Southern California
- 11:53 am – 11:57 am Patient Specific Planning in Shoulder Arthroplasty: Bending the Learning Curve
Henry Fox, MA, Oregon Health & Science University
- 11:57 am – 12:01 pm Smoking as a Risk Factor for Complications Following Shoulder Arthroplasty: A Population-Based Study
Jae Kim, MA, Keck School of Medicine of the University of Southern California
- 12:01 pm – 12:05 pm Discussion
- 12:05 pm – 12:09 pm 90-Day Complication Rate following Shoulder Arthroplasty in a Veteran Population

Farhad Darbandi, MD, University of Arizona

- 12:09 pm – 12:13 pm Complication of Reverse Shoulder Arthroplasty for Proximal Humerus Fracture
Santano Rosario, BA, Keck School of Medicine at the University of Southern California
- 12:13 pm – 12:17 pm Hypoalbuminemia is a Risk Factor for Both Complications and Readmissions after Open Reduction and Internal Fixation of Proximal Humerus Fractures
Jonathan Cheah, MD, University of California, San Francisco
- 12:17 pm – 12:21 pm Survivorship of Proximal Humerus Fracture Initial Management
Alexis Rounds, BS, Keck School of Medicine at the University of Southern California
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm Trends of Initial Management Following Proximal Humerus Fracture
Santano Rosario, BA, Keck School of Medicine at the University of Southern California
- 12:29 pm – 12:33 pm Outpatient Total Elbow Arthroplasty: 90-Day Outcomes
Michael Stone, MD, Keck School of Medicine at the University of Southern California
- 12:33 pm – 12:37 pm Ipsilateral Capitellum and Lesser Sigmoid Notch Predict Radial Head Size
Brett Schiffman, MD, University of Washington
- 12:37 pm – 12:41 pm Stress Shielding in Partial Grit-Blasted Prosthetic Radial Heads
Hithem Rahmi, DO, Geisinger Musculoskeletal Institute
- 12:41 pm – 12:45 pm Discussion

General Session 7 – Abstract Presentations

Moderator: TBD

- 12:50 pm – 12:56 pm Limb Length Discrepancy and Walking Performance in Hemiplegic Cerebral Palsy
Jason Rhodes, MD, Children's Hospital Colorado
- 12:56 pm – 1:02 pm An MRI Study of Neurovascular Bundle to Popliteus Tendon Distance
Kendall Shifflett, BS, Orthopaedic Institute for Children

- 1:02 pm – 1:08 pm 3D Printed Scaffolds and Regional Gene Therapy for Bone Repair
Ram Alluri, MD, Keck School of Medicine at the University of Southern California
- 1:08 pm – 1:14 pm Does Day of the Week of Surgery Affect Time to Discharge?
Kali Tileston, MD, Stanford University
- 1:14 pm – 1:20 pm Should We Repair Extensor Tendon Lacerations >50% of Tendon Width?
Christina Salas, PhD, University of New Mexico
- 1:20 pm – 1:26 pm Injections Prior to Rotator Cuff Repair Increase Revision Rotator Cuff Repair Rates
Alexander Weber, MD, Keck School of Medicine at the University of Southern California
- 1:26 pm – 1:30 pm Discussion
- 1:30 pm – 1:35 pm Farewell

Tumor Answer Session

Moderators: Jeffrey E. Krygier, MD, *Santa Clara Valley Medical Center*
 Brian S. Moon, MD, *UT-MD Anderson Cancer Center*

1:35 pm – 2:00 pm Questions & Discussion

2:00 pm – 3:00 pm **Multimedia Education Session**